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ARMY ELECTRONICS COMMAND WHITE SANDS MISSILE RANGE N--ETC F/G 4/2
12811A LANCE MISSILE NUMBER 3206, ROUND NUMBER 284 ACT (23 JULY--ETC(U))
JUL 76

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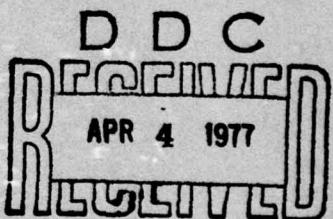
12811A LANCE
MISSILE NO. 3206, ROUND NO. 284 ACT
(23 July 1976)

BY

WSMR METEOROLOGICAL TEAM

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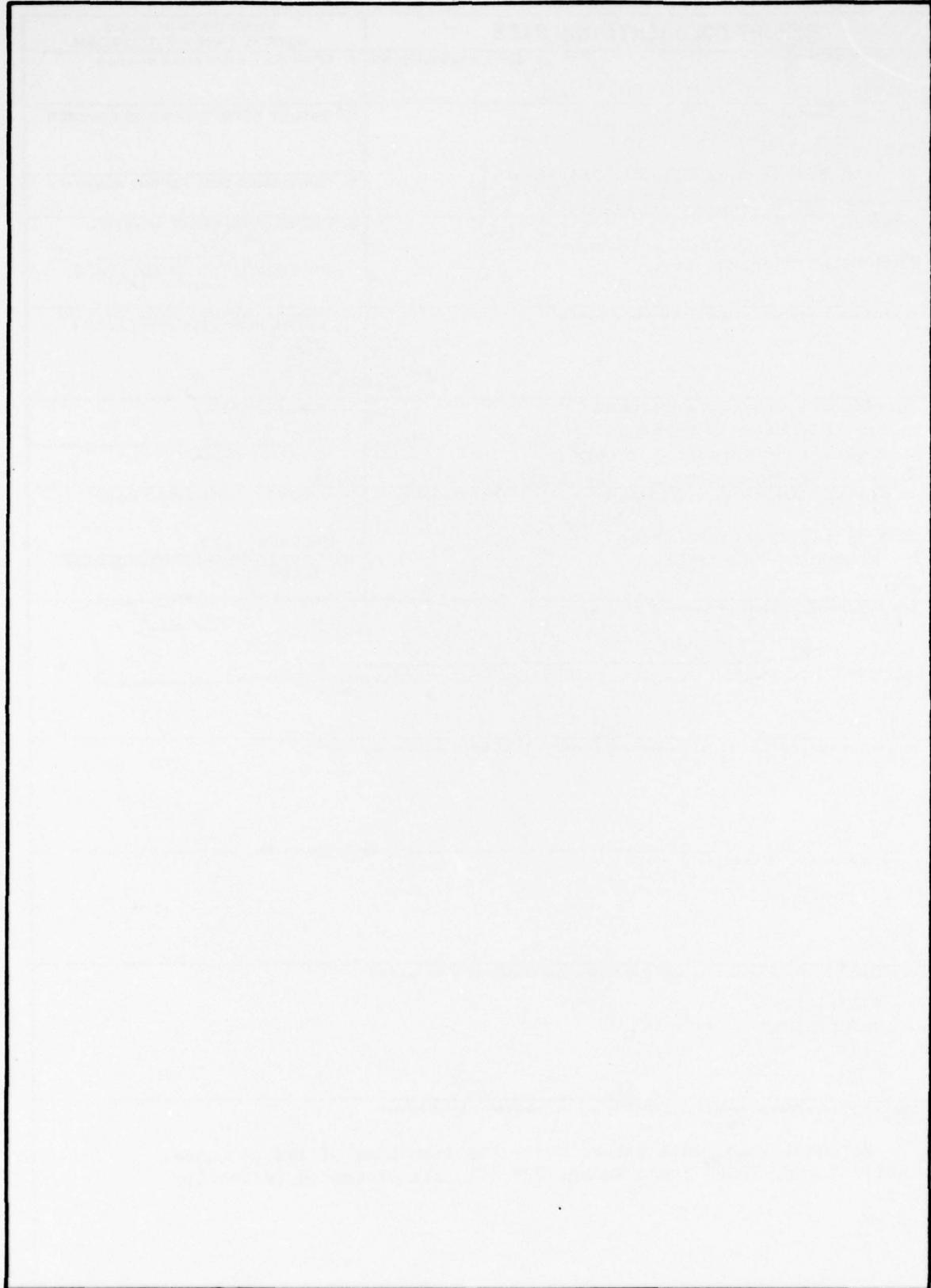
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INTRODUCTION

12811A Lance, Missile Number 3206, Round Number 284 ACT, was launched from Don Site, White Sands Missile Range (WSMR), New Mexico, at 0803 HRS MDT, 23 July 1976. The scheduled launch time was 0800 HRS MDT.

DISCUSSION

Meteorological data were recorded and reduced by the WSMR Meteorological Team, Atmospheric Sciences Laboratory (ASL), WSMR, New Mexico. The data are presented in the following tabulations.

ELEVATION	3,996.0	FEET/MSL
PRESSURE	882.1	MBS
TEMPERATURE	20.9	°C
RELATIVE HUMIDITY	78	%
DEW POINT	17.0	°C
DENSITY	1,036.6	GM/M ³
WIND SPEED	04	MPH
WIND DIRECTION	070	DEGREES
CLOUD COVER	5 1	Cu Ac

TABLE I. SURFACE OBSERVATIONS TAKEN AT DON SITE,
0803 HRS MDT/23 JULY 1976.

ELEVATION	3,990.0	FEET/MSL
PRESSURE	884.4	MBS
TEMPERATURE	20.1	°C
RELATIVE HUMIDITY	79	%
DEW POINT	16.4	°C
DENSITY	1,042.0	GM/M ³
WIND SPEED		CALM
WIND DIRECTION		CALM
CLOUD COVER	2 1 5	Cu Ac Ci

TABLE II. SURFACE OBSERVATIONS TAKEN AT WSD,
0807 HRS MDT/23 JULY 1976.

T-TIME (MIN-SEC)	DIR DEG	SPEED (MPH)
-0.30	075	02
-0.20	075	03
-0.10	094	03
00.00	095	03
+0 10.00	094	03

TABLE III. ANEMOMETER-MEASURED WIND SPEED AND DIRECTION
 12811A LANCE, MISSILE NO. 3206, ROUND NO. 284 ACT
 LAUNCHED FROM DON SITE, 0803 MDT/23 JULY 1976

WSTM COORDINATES: X = 511,988.37 Y = 247,396.36 Z = 3,996.83

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR		CALM	2100	140	8.0
100	045	0.5	2200	150	10.0
200	063	2.0	2300	163	8.5
300	096	5.0	2400	161	9.0
400	110	11.5	2500	163	8.5
500	126	11.0	2600	144	8.5
600	118	11.5	2700	158	9.0
700	124	9.0	2800	141	9.5
800	127	7.5	2900	158	8.0
900	121	8.5	3000	153	6.5
1000	133	8.0	3100	176	6.5
1100	130	8.5	3200	174	4.5
1200	140	8.5	3300	188	7.0
1300	135	10.0	3400	185	6.0
1400	133	10.5	3500	169	5.0
1500	126	8.5	3600	153	6.5
1600	125	10.5	3700	158	5.5
1700	135	8.5	3800	158	2.5
1800	146	11.0	3900	156	6.0
1900	131	9.0	4000	157	6.5
2000	140	8.0	4100	157	6.5

TABLE IV. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 1
RELEASED FROM DON SITE, AT 0758 MDT/23 JULY 1976
12811A LANCE, MISSILE NO. 3206, ROUND NO. 284 ACT

PIBAL RELEASE POINT WSTM COORDINATES:

X = 511,988.37 Y = 247,396.36 Z = 3,996.83

APPORXIMATELY: 1/2 MILE SOUTH OF LAUNCHER.

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	162	6.5	5700	120	7.0
4300	138	8.0	5800	125	6.0
4400	120	8.0	5900	121	6.0
4500	133	9.5	6000	127	5.0
4600	133	9.5	6100	129	6.5
4700	126	8.5	6200	135	3.0
4800	119	9.0	6300	169	2.5
4900	118	8.5	6400	149	3.0
5000	114	6.0	6500	099	3.0
5100	097	8.0	6600	056	3.5
5200	104	8.0	6700	045	3.0
5300	105	8.0	6800	045	4.0
5400	108	6.5	6900	036	4.5
5500	117	6.5	7000	018	3.0
5600	112	5.5			

TABLE IV. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR		CALM	2100	180	3.0
100		CALM	2200	175	3.0
200	205	1.0	2300	170	2.0
300	210	2.0	2400	165	3.0
400	210	2.0	2500	150	3.0
500	210	3.0	2600	140	4.0
600	210	3.0	2700	130	4.0
700	215	3.0	2800	120	5.0
800	215	4.0	2900	110	5.0
900	220	4.0	3000	105	6.0
1000	220	5.0	3100	100	6.0
1100	220		3200	085	7.0
1200	220		3300	075	7.0
1300	215		3400	070	8.0
1400	210		3500		8.0
1500	205	5.0	3600		8.0
1600	200	4.0	3700		9.0
1700	195	4.0	3800		9.0
1800	190	4.0	3900		9.0
1900	190	4.0	4000		10.0
2000	185	3.0	4100	070	10.0

TABLE V. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 1
 RELEASED FROM TULAROSA GATE, AT 0804 MDT/23 JULY 1976
 12811A LANCE, MISSILE NO. 3206, ROUND NO. 284 ACT

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	070	10.0	6600	095	7.0
4300			6700	095	
4400			6800	100	
4500			6900	110	
4600	070		7000	115	
4700	075		7100	120	
4800	080		7200	130	
4900	080		7300	135	
5000	080		7400	140	
5100	080		7500	145	
5200	085	10.0	7600	145	
5300	085	9.0	7700	150	
5400	090		7800	160	
5500	095		7900		
5600			8000		
5700		9.0	8100		
5800		8.0	8200		
5900			8300		
6000			8400		
6100			8500		
6200		8.0	8600		
6300		7.0	8700		
6400		7.0	8800		
6500	095	7.0	8900		
			9000	160	7.0

TABLE V. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	070	4.0	2100	128	9.0
100	117	1.0	2200	122	9.5
200	141	3.0	2300	136	6.5
300	099	6.5	2400	138	6.0
400	124	7.0	2500	144	7.0
500	124	7.0	2600	153	6.5
600	115	7.0	2700	163	5.0
700	115	7.0	2800	158	5.5
800	118	8.5	2900	167	4.5
900	122	9.5	3000	180	4.0
1000	120	11.0	3100	180	4.5
1100	123	10.0	3200	164	3.5
1200	125	10.5	3300	171	3.0
1300	125	10.5	3400	166	4.0
1400	121	10.5	3500	156	5.0
1500	124	11.0	3600	140	4.5
1600	123	10.0	3700	146	5.5
1700	124	9.0	3800	131	5.5
1800	126	9.5	3900	135	5.0
1900	125	10.5	4000	128	5.5
2000	122	9.5	4100	125	6.0

TABLE VI. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 2
RELEASED FROM DON SITE, AT 0817 MDT/23 JULY 1976
12811A LANCE, MISSILE NO. 3206, ROUND NO. 284 ACT

PIBAL RELEASE POINT WSTM COORDINATES:

X = 511,988.37 Y = 247,396.36 Z = 3,996.83

APPROXIMATELY: 1/2 MILE SOUTH OF LAUNCHER.

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	122	6.5
4300	114	6.0
4400	117	6.5
4500	121	6.0
4600	112	8.0
4700	112	8.0
4800	114	8.5
4900	107	7.0
5000	103	6.5
5100	103	6.5

TABLE VI. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

STATION ALTITUDE 4126.5 FEET MSL
23 JULY 76
ASCENSION NO. 407

SIGNIFICANT LEVEL DATA
2050010407
HOLLOWMAN

TABLE VII

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE DEGREES	REL.HUM. PERCENT	
			AIR DEGREE	POINT CENTIGRADE
860.5	4126.6	18.4	13.1	71.0
863.0	4695.3	20.6	13.1	62.0
850.0	5125.4	19.3	10.3	56.0
807.0	6586.2	16.2	9.2	63.0
784.0	7394.4	15.7	7.2	57.0
700.0	10517.6	8.2	5.0	80.0
682.0	11223.5	6.2	3.5	83.0
627.0	13471.6	1.2	-4.2	67.0
614.0	14026.2	1.3	-11.1	39.0
607.0	14329.3	.7	-8.8	49.0
575.0	15751.6	-2.2	-16.6	32.0
535.0	17627.9	-4.0	-21.5	24.0
500.0	19369.0	-8.2	-22.3	31.0
471.0	20885.2	-11.5	-24.8	32.0
460.0	21480.0	-12.6	-21.5	47.0
443.0	22422.6	-14.4	-23.9	44.0
400.0	24936.9	-21.0	-28.6	50.0
385.0	25861.1	-23.7	-28.9	62.0
363.0	25985.3	-24.0	-34.8	36.0
375.0	26493.7	-23.5	-41.1	18.0
361.0	27406.2	-25.2	-43.0	17.0
331.0	29468.5	-27.9	-45.8	16.0
316.0	30560.3	-30.0	-47.6	16.0
300.0	31770.7	-33.1	-49.7	17.0
288.0	32713.0	-34.4		
250.0	35916.1	-42.4		
208.0	39921.2	-52.4		
200.0	40754.9	-53.3		
187.0	42174.7	-55.2		
166.0	44646.6	-61.1		

STATION ALTITUDE 4126.59 FEET MSL
23 JULY 76 0740 HRS MDT
ASCENSION NO. 437

SIGNIFICANT LEVEL DATA

2050104C7

HOLLOWAY

TABLE VII (CONT)

WSTM SITE COORDINATES
571739.24 FEET E
362745.21 FEET N

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE FEET MSL	TEMPERATURE		
		AIR DEWPONT DEGREES CENTIGRADE	REL.HUM. PERCENT	REL.HUM. PERCENT
150.0	46707.7	-63.9	-63.9	-63.9
148.0	46978.2	-65.0	-65.0	-65.0
143.0	47671.6	-63.4	-63.4	-63.4
131.0	49445.7	-63.7	-63.7	-63.7
116.0	51889.3	-66.5	-66.5	-66.5
107.0	53504.3	-65.8	-65.8	-65.8
100.0	54853.3	-67.8	-67.8	-67.8
94.0	56079.4	-68.4	-68.4	-68.4
70.0	62004.1	-62.0	-62.0	-62.0
50.0	68975.1	-55.8	-55.8	-55.8
33.0	77770.4	-53.0	-53.0	-53.0
30.0	79815.9	-50.1	-50.1	-50.1
22.0	86542.5	-48.4	-48.4	-48.4
20.0	88604.9	-51.4	-51.4	-51.4
15.0	94910.7	-42.7	-42.7	-42.7

STATION ALTITUDE 4126.59 FEET MSL
 23 JULY 76 0740 HRS MDT
 ASCENSION NO. 407

UPPER AIR DATA
 2050010407
 HOLLOMAN

WSTM SITE COORDINATES
 571739.24 FEET E
 362745.21 FEET N

TABLE VIII

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEWPPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	WIND DATA		INDEX OF REFRACTION
					DIRECTION DEGREES(TN)	SPEED KNOTS	
4126.6	880.5	18.4	13.1	71.0	1045.3	667.4	1.000300
4500.0	869.0	19.8	13.1	65.1	1026.4	669.0	1.000295
5000.0	853.8	19.7	11.1	57.8	1009.7	668.6	1.000284
5500.0	838.8	18.5	10.0	57.8	996.3	667.2	1.000277
6000.0	824.0	17.4	9.7	60.2	982.4	665.9	1.000273
6500.0	809.5	16.4	9.2	62.6	968.6	664.7	1.000269
7000.0	795.1	15.9	8.2	59.9	953.2	664.1	1.000262
7500.0	781.0	15.4	7.2	57.8	938.1	663.5	1.000255
8000.0	767.0	14.2	6.9	61.5	925.1	662.1	1.000252
8500.0	753.2	13.0	6.7	65.1	912.3	660.7	1.000249
9000.0	739.6	11.8	6.3	68.8	899.7	659.3	1.000245
9500.0	726.3	10.6	5.9	72.5	887.3	657.9	1.000242
10000.0	713.3	9.4	5.5	76.2	875.1	656.5	1.000238
10500.0	700.4	8.2	5.0	79.7	863.1	655.1	1.000234
11000.0	687.6	6.8	4.0	82.1	851.8	653.3	1.000229
11500.0	675.0	5.6	2.6	81.0	840.1	651.8	1.000223
12000.0	662.5	4.5	0.9	77.5	828.2	650.3	1.000217
12500.0	650.2	3.4	0.8	73.9	816.4	648.9	1.000210
13000.0	638.2	2.2	-2.6	70.4	804.8	647.5	1.000205
13500.0	626.3	1.2	-4.5	65.6	793.2	646.1	1.000199
14000.0	614.6	1.3	-10.7	40.3	778.9	645.9	1.000187
14500.0	603.1	0.4	-9.6	47.0	766.7	644.9	1.000186
15000.0	591.7	-0.7	-12.3	41.0	755.3	643.6	1.000180
15500.0	580.5	-1.7	-15.1	35.0	744.1	642.3	1.000175
16000.0	569.5	-2.4	-17.2	30.9	732.1	641.3	1.000171
16500.0	558.7	-2.9	-18.5	28.8	719.5	640.7	1.000168
17000.0	548.1	-3.4	-19.8	26.7	707.2	640.1	1.000164
17500.0	537.6	-3.9	-21.2	24.5	695.0	639.5	1.000161
18000.0	527.3	-4.9	-21.6	25.5	684.3	638.3	1.000158
18500.0	517.2	-6.1	-21.8	27.5	674.1	636.9	1.000156

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4126.59 FEET MSL
 23 JULY 76 0740 HRS MDT
 ASCENSION NO. 407

UPPER AIR DATA
 2050010407
 HOLLOWAY

WSTM SITE COORDINATES
 571739.24 FEET E
 362745.21 FEET N

TABLE VIII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREEES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
19000.0	507.2	-7.3	-22.1	29.5	664.2	635.4	72.9	1.000154
19500.0	497.4	-8.5	-22.5	31.1	654.2	634.0	70.8	1.000151
20000.0	487.7	-9.6	-23.3	31.4	644.2	632.7	68.4	1.000149
20500.0	478.2	-10.7	-24.2	31.7	634.2	631.4	63.7	1.000146
21000.0	468.9	-11.7	-24.1	34.9	624.3	630.1	59.1	1.000144
21500.0	457.6	-12.6	-21.6	46.9	614.1	629.1	55.0	1.000143
22000.0	450.5	-13.6	-22.9	45.3	604.2	627.9	50.9	1.000140
22500.0	441.6	-14.6	-24.1	44.2	594.6	626.7	49.0	1.000137
23000.0	432.7	-15.9	-25.0	45.4	585.6	625.0	47.1	1.000135
23500.0	424.0	-17.2	-25.9	46.6	576.8	623.4	46.3	1.000133
24000.0	415.5	-18.5	-26.8	47.8	568.2	621.8	45.6	1.000131
24500.0	407.2	-19.9	-27.8	49.0	559.7	620.2	45.6	1.000128
25000.0	399.0	-21.2	-28.6	50.8	551.3	618.6	45.7	1.000126
25500.0	390.8	-22.6	-28.7	57.3	543.2	616.8	46.3	1.000124
26000.0	382.8	-24.0	-34.9	35.5	535.0	615.0	47.0	1.000121
26500.0	374.9	-23.5	-41.1	18.0	523.1	615.6	48.4	1.000118
27000.0	367.2	-24.4	-42.1	17.4	514.2	614.4	49.9	1.000115
27500.0	359.6	-25.3	-43.1	17.0	505.4	613.3	51.3	1.000113
28000.0	352.1	-26.0	-43.8	16.7	496.2	612.5	52.5	1.000111
28500.0	344.8	-26.6	-44.5	16.5	487.1	611.7	53.0	1.000109
29000.0	337.6	-27.3	-45.2	16.2	478.3	610.9	53.4	1.000107
29500.0	330.6	-28.0	-45.9	16.0	469.6	610.1	53.2	1.000105
30000.0	323.6	-28.9	-46.7	16.0	461.5	608.9	52.9	1.000103
30500.0	316.8	-29.9	-47.5	16.0	453.6	607.7	52.0	1.000102
31000.0	310.1	-31.1	-48.3	16.4	446.3	606.1	50.8	1.000100
31500.0	303.5	-32.4	-49.2	16.8	439.1	604.5	50.4	1.000098
32000.0	297.0	-33.4	-52.3	12.9**	431.6	603.2	50.2	1.000096
32500.0	290.7	-34.1	-62.4	3.8**	423.6	602.3	50.5	1.000094
33000.0	284.4	-35.1			416.2	601.1	49.8	1.000093
33500.0	278.2	-36.4			409.2	599.5	49.6	1.000091

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4126.59 FEET MSL
 23 JULY 76 0740 HRS MDT
 ASCENSION NO. 437

UPPER AIR DATA
 205001G437
 HOLLOMAN

TABLE VIII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEWEPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES(TM)	WIND SPEED KNOTS	INDEX OF REFRACTION
34000.0	272.1	-37.6		402.4	597.9	49.2	59.4	1.000090
34500.0	266.1	-38.9		395.7	596.3	48.9	60.8	1.000088
35000.0	260.3	-40.1		389.2	594.7	49.3	61.2	1.000087
35500.0	254.6	-41.4		382.7	593.1	47.5	61.3	1.000085
36000.0	249.0	-42.6		376.3	591.5	46.9	61.9	1.000084
36500.0	243.4	-43.9		369.8	589.9	46.5	63.4	1.000082
37000.0	237.9	-45.1		363.4	588.3	46.2	64.8	1.000081
37500.0	232.5	-46.4		357.1	586.7	46.3	65.3	1.000080
38000.0	227.2	-47.6		350.9	585.1	46.5	65.9	1.000078
38500.0	222.0	-48.9		344.8	583.5	46.5	65.6	1.000077
39000.0	217.0	-50.1		338.9	581.8	46.4	64.9	1.000075
39500.0	212.1	-51.3		333.1	580.2	46.4	63.8	1.000074
40000.0	207.2	-52.5		327.2	578.7	46.1	59.6	1.000073
40500.0	202.4	-53.0		320.3	578.0	45.8	55.5	1.000071
41000.0	197.7	-53.6		313.7	577.2	45.6	51.2	1.000070
41500.0	193.1	-54.3		307.3	576.3	45.5	46.8	1.000068
42000.0	188.6	-55.0		301.1	575.4	45.3	43.1	1.000067
42500.0	184.1	-56.0		295.3	574.1	45.4	45.1	1.000066
43000.0	179.7	-57.2		289.9	572.5	45.4	47.2	1.000065
43500.0	175.4	-58.4		284.5	571.0	46.1	49.4	1.000063
44000.0	171.3	-59.6		279.3	569.4	47.1	51.6	1.000062
44500.0	167.2	-60.8		274.2	567.8	48.1	53.4	1.000061
45000.0	163.1	-61.6		268.6	566.7	50.2	51.1	1.000060
45500.0	159.2	-62.3		262.9	565.7	52.5	48.9	1.000059
46000.0	155.3	-62.9		257.4	564.8	55.1	45.4	1.000057
46500.0	151.5	-63.6		251.9	563.9	58.1	41.1	1.000056
47000.0	147.8	-64.9		247.4	562.1	61.7	37.0	1.000055
47500.0	144.2	-63.8		240.0	563.7	64.1	33.1	1.000053
48000.0	140.7	-63.5		233.7	564.1	67.2	29.3	1.000052
48500.0	137.3	-63.5		228.1	564.0	68.5	26.5	1.000051

STATION ALTITUDE 4126.59 FEET MSL
 23 JULY 76 0740 HRS MDT
 ASCENSION NO. 407

UPPER AIR DATA
 20500104C7
 HOLLOWAY
 TABLE VIII (CONT)

SITE COORDINATES
 WSTM 571739.24 FEET E
 362745.21 FEET N

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE DEGREES	AIR DEWPOINT DEGREES	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF WIND DATA KNOTS	INDEX OF REFRACTION
49000.0	133.9	-63.6		222.7	563.9	67.7	24.6
49500.0	130.6	-63.8		217.4	563.7	66.4	22.7
50000.0	127.4	-64.3		212.6	563.0	66.5	19.8
50500.0	124.3	-64.9		207.9	562.2	67.1	16.6
51000.0	121.2	-65.5		203.4	561.4	68.0	13.6
51500.0	118.3	-66.1		198.9	560.6	69.6	11.4
52000.0	115.4	-66.5		194.4	560.1	71.8	9.3
52500.0	112.5	-66.2		189.4	560.4	69.2	8.1
53000.0	109.7	-66.0		184.6	560.7	61.0	8.0
53500.0	107.0	-65.8		179.8	561.0	52.7	8.0
54000.0	104.4	-66.5		176.0	560.3	55.6	7.3
54500.0	101.8	-67.3		172.2	569.0	60.2	6.6
55000.0	99.3	-67.9		168.5	558.2	67.1	6.5
55500.0	96.8	-68.1		164.4	557.8	74.6	7.6
56000.0	94.4	-68.4		160.5	557.5	80.2	8.8
56500.0	92.1	-67.9		156.3	558.1	80.3	10.2
57000.0	89.8	-67.4		152.0	558.8	79.7	11.7
57500.0	87.6	-66.9		147.9	559.5	79.2	13.1
58000.0	85.4	-66.3		143.9	560.3	74.6	15.7
58500.0	83.3	-65.8		140.0	561.0	70.8	18.5
59000.0	81.3	-65.2		136.2	561.7	68.1	21.4
59500.0	79.3	-64.7		132.5	562.5	72.7	22.6
60000.0	77.3	-64.2		128.9	563.2	77.6	23.7
60500.0	75.4	-63.6		125.4	563.9	82.2	24.9
61000.0	73.4	-63.1		122.0	564.6	89.0	24.8
61500.0	71.8	-62.5		118.7	565.4	95.8	25.1
62000.0	70.0	-62.0		115.5	566.1	98.3	24.9
62500.0	68.3	-61.6		112.5	566.7	97.8	24.1
63000.0	66.7	-61.1		109.6	567.3	97.2	23.3
63500.0	65.1	-60.7		106.8	567.9	94.4	23.4

STATION ALTITUDE 4126.59 FEET MSL
 23 JULY 76 0740 HRS MDT
 ASCENSION NO. 407

UPPER AIR DATA
 2050010407
 HOLLOWMAN

WSTM SITE COORDINATES
 571739.24 FEET E
 362745.21 FEET N

TABLE VIII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEWEPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SOUND SPEED KNOTS	WIND DIRECTION DEGREES(16)	WIND SPEED KNOTS	INDEX OF REFRACTION
64000.0	63.6	-60.2	104.0	568.5	91.7	23.6	1.000023	
64500.0	62.1	-59.8	101.3	569.1	88.1	24.0	1.000023	
65000.0	60.6	-59.3	98.7	569.7	83.8	24.7	1.000022	
65500.0	59.1	-58.9	96.1	570.3	79.8	25.6	1.000021	
66000.0	57.7	-58.4	93.7	570.8	77.4	25.9	1.000021	
66500.0	56.3	-58.0	91.2	571.4	75.5	26.0	1.000020	
67000.0	55.0	-57.6	88.9	572.0	73.7	26.2	1.000020	
67500.0	53.7	-57.1	86.6	572.6	77.5	26.5	1.000019	
68000.0	52.4	-56.7	84.3	573.2	61.6	26.9	1.000019	
68500.0	51.2	-56.2	82.2	573.8	45.6	27.4	1.000018	
69000.0	49.9	-55.8	80.0	574.4	89.6	27.7	1.000018	
69500.0	48.8	-55.6	78.1	574.6	93.5	28.2	1.000017	
70000.0	47.6	-55.5	76.2	574.8	96.2	28.2	1.000017	
70500.0	46.5	-55.3	74.4	575.0	96.4	27.1	1.000017	
71000.0	45.4	-55.2	72.6	575.2	96.6	25.9	1.000016	
71500.0	44.4	-55.0	70.9	575.4	98.9	25.4	1.000016	
72000.0	43.3	-54.8	69.2	575.6	101.9	25.2	1.000015	
72500.0	42.3	-54.7	67.5	575.8	104.7	24.8	1.000015	
73000.0	41.3	-54.5	65.9	576.0	106.1	23.6	1.000015	
73500.0	40.4	-54.4	64.3	576.2	107.6	22.4	1.000014	
74000.0	39.4	-54.2	62.7	576.5	104.8	22.1	1.000014	
74500.0	38.5	-54.0	61.2	576.7	98.4	22.8	1.000014	
75000.0	37.6	-53.9	59.8	576.9	92.5	23.7	1.000013	
75500.0	36.7	-53.7	58.3	577.1	89.4	25.9	1.000013	
76000.0	35.9	-53.6	56.9	577.3	87.0	28.2	1.000013	
76500.0	35.0	-53.4	55.6	577.5	85.1	30.1	1.000012	
77000.0	34.2	-53.2	54.2	577.7	84.2	30.5	1.000012	
77500.0	33.4	-53.1	52.9	577.9	83.2	30.9	1.000012	
78000.0	32.6	-52.7	51.6	578.5	82.4	31.3	1.000011	
78500.0	31.9	-52.0	50.2	579.4	82.6	31.4	1.000011	

STATION ALTITUDE 4126.59 FEET MSL
 23 JULY 76 0740 HRS MDT
 ASCENSION NO. 407

UPPER AIR DATA
 235014Z JUN 76
 HOLLOWAY

TABLE VIII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT		SOUND METER KNOTS	WIND DATA DIRECTION DEGREES(TN) SPEED KNOTS	INDEX OF REFRACTION
			GM/CUBIC	SOUND		DIRECTIONS	SPEED
79000.0	31.2	-51.3	48.9	580.3	62.8	31.5	1.000011
79500.0	30.4	-50.5	47.6	581.2	63.0	31.5	1.000011
80000.0	29.7	-50.1	46.4	581.9	63.9	30.8	1.000010
80500.0	29.1	-49.9	45.4	582.1	65.0	29.8	1.000010
81000.0	28.4	-47.8	44.3	582.2	66.2	28.9	1.000010
81500.0	27.8	-49.7	43.3	582.4	65.1	27.8	1.000010
82000.0	27.1	-49.5	42.3	582.5	62.4	26.6	1.000009
82500.0	26.5	-49.4	41.3	582.7	79.3	25.5	1.000009
83000.0	25.9	-49.3	40.3	582.9	77.8	24.7	1.000009
83500.0	25.3	-49.2	39.4	583.0	79.2	24.6	1.000009
84000.0	24.7	-49.0	38.5	583.2	60.6	24.5	1.000009
84500.0	24.2	-48.9	37.6	583.4	62.5	24.3	1.000008
85000.0	23.6	-48.8	36.7	583.5	67.9	23.9	1.000008
85500.0	23.1	-48.7	35.8	583.7	93.5	23.6	1.000008
86000.0	22.6	-48.5	35.0	583.9	99.1	23.6	1.000008
86500.0	22.0	-48.4	34.2	584.0	101.0	23.2	1.000008
87000.0	21.5	-49.1	33.5	583.2	102.5	22.6	1.000007
87500.0	21.0	-49.8	32.8	582.2	104.0	22.1	1.000007
88000.0	20.6	-50.5	32.2	581.3	97.4	23.2	1.000007
88500.0	20.1	-51.2	31.6	580.3	90.9	24.8	1.000007
89000.0	19.6	-50.9	30.8	580.8	85.3	26.7	1.000007
89500.0	19.2	-50.2	30.0	581.7	d2.1	27.9	1.000007
90000.0	18.8	-49.5	29.2	582.6	79.3	29.2	1.000006
90500.0	18.3	-48.8	28.5	583.5	77.6	30.6	1.000006
91000.0	17.9	-48.1	27.8	584.4	81.1	32.2	1.000006
91500.0	17.5	-47.4	27.0	585.3	84.2	33.9	1.000006
92000.0	17.1	-46.7	26.4	586.2	87.3	35.4	1.000006
92500.0	16.7	-46.0	25.7	587.1	90.8	36.2	1.000006
93000.0	16.4	-45.3	25.0	588.0	94.2	37.2	1.000006
93500.0	16.0	-44.6	24.4	588.9			1.000005

STATION ALTITUDE 4126.57 FEET MSL
23 JULY 76 0740 HRS MDT
ASCENSION NO. 4C7

UPPER AIR DATA
2052010407
HOLLOWAY

WSTM SITE COORDINATES
571739.24 FEET E
362745.21 FEET N

TABLE VIII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREE CENTIGRADE	KELVIN PERCENT	SPEED OF SOUND GM/CUBIC METER KNOTS	DIRECTION DEGREES(1N). DEGREES(1N).	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
94900.0	15.6	-44.0	23.8	589.8	1.000005		
94500.0	15.3	-43.3	23.2	590.7	1.000005		

STATION ALTITUDE 4126.59 FEET MSL
 23 JULY 76 0740 HRS MDT
 ASCENSION NO. 407

MANDATORY LEVELS

2050010407
 HULLOMAN

TABLE IX

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE		REL.HUM. PERCENT	WIND DATA	
		AIR DEWPONT DEGREES	CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	5124.	19.3	10.3	56.	9999.0	9999.0XX
800.0	6827.	16.0	8.6	61.	9999.0	9999.0XX
750.0	6621.	12.8	6.6	66.	319.5	2.8
700.0	10511.	8.2	5.0	80.	18.0	2.0
650.0	12504.	3.3	-0.9	74.	38.2	5.9
600.0	14623.	-1	-10.3	45.	52.8	8.7
550.0	16893.	-3.3	-19.6	27.	60.2	13.4
500.0	19348.	-8.2	-22.3	31.	71.5	19.6
450.0	22004.	-13.7	-22.9	45.	50.7	21.5
400.0	24903.	-21.0	-28.6	50.	45.7	24.1
350.0	28101.	-26.2	-44.0	17.	52.7	37.5
300.0	31716.	-33.1	-49.7	17.	50.3	45.2
250.0	35847.	-42.4	-42.4		47.0	61.6
200.0	40668.	-53.3			45.7	53.4
175.0	43460.	-58.5			46.2	49.6
150.0	46595.	-63.9			59.5	39.5
125.0	50261.	-64.8			67.0	17.3
100.0	54699.	-67.8			64.2	6.2
80.0	59118.	-64.9			70.4	22.1
70.0	61809.	-62.0			98.3	24.9
60.0	64958.	-59.2			82.5	25.0
50.0	68737.	-55.8			69.3	27.7
40.0	73414.	-54.3			108.2	22.0
30.0	79502.	-50.1			83.5	31.1
25.0	83418.	-49.1			79.9	24.5
20.0	88220.	-51.4			89.8	25.2
15.0	94471.	-42.7				

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3951.4 FEET MSL
 23 JULY 76 0750 HRS MDT
 ASCENSION NO. 10

SIGNIFICANT LEVEL DATA

2050000010

APACHE

WSTM SITE COORDINATES
 491468.66 FEET E
 267476.59 FEET N

TABLE X

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE DEGREES CENTIGRADE	REL.HUM. PERCENT	
			AIR DEWPOINT	PERCENT
885.6	3951.4	21.1	16.3	74.0
872.3	4381.2	19.0	13.6	71.0
850.0	5111.8	17.8	9.9	60.0
738.3	9030.2	11.4	5.1	65.0
700.0	10485.2	7.5	4.8	83.0
671.3	11615.5	4.8	3.6	92.0
616.3	13893.6	0.7	-3.4	74.0
591.3	14982.8	-1.8	-10.3	52.0
558.3	16477.4	-4.6	-15.0	44.0
547.8	16968.7	-4.6	-28.8	13.0
500.0	19312.3	-8.8	-23.7	28.0
400.0	24858.6	-21.7	-24.5	78.0
388.3	25575.2	-24.0	-25.9	84.0
382.3	25949.4	-23.7	-44.2	13.0
330.3	29427.0	-29.0	-50.8	10.0
300.0	31671.2	-33.4		
250.0	35804.2	-42.7		
228.3	37800.6	-47.7		
200.0	40639.6	-53.9		
165.8	44539.7	-61.4		
150.0	46588.8	-61.0		
139.3	48102.3	-61.7		
112.3	52422.9	-69.3		
108.8	53049.5	-67.3		
100.0	54723.3	-68.2		
77.8	59762.8	-62.6		
75.0	61911.3	-63.0		

STATION ALTITUDE 3951.40 FEET MSL
 23 JULY 76 0750 HRS MDT
 ASCENSION NO. 10

UPPER AIR DATA
 205005010
 APACHE

TABLE XI

HSTM SITE COORDINATES
 481468.66 FEET E
 267476.59 FEET N

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES(TN)	IND DATA SPEED KNOTS	INDEX OF REFRACTION
3951.4	885.6	21.1	16.3	74.0	1040.2	670.9	•0	1.000313
4000.0	884.1	20.9	16.0	73.7	1039.4	670.6	130.8	1.000311
4500.0	868.6	18.8	13.0	69.2	1029.7	667.9	130.8	1.000296
5000.0	853.4	18.0	10.5	61.7	1015.4	664.6	130.8	1.000283
5500.0	838.2	17.2	9.5	60.5	1000.4	665.6	130.8	1.000276
6000.0	823.3	16.3	8.9	61.1	985.5	664.6	133.2	1.000271
6500.0	808.6	15.5	8.2	61.8	970.8	663.6	138.3	1.000266
7000.0	794.2	14.7	7.6	62.4	956.3	662.6	143.2	1.000261
7500.0	780.1	13.9	7.0	63.0	942.1	661.7	146.8	1.000256
8000.0	766.2	13.1	6.4	63.7	928.1	660.7	137.9	1.000251
8500.0	752.5	12.3	5.7	64.3	914.2	659.7	130.3	1.000246
9000.0	739.1	11.4	5.1	65.0	900.6	658.7	123.7	1.000242
9500.0	725.7	10.1	5.1	70.8	888.3	657.2	108.2	1.000239
10000.0	712.5	8.8	5.0	77.0	876.3	655.7	71.3	1.000237
10500.0	699.6	7.5	4.8	83.1	864.5	654.1	42.1	2.0
11000.0	686.8	6.3	4.3	87.1	852.3	652.7	35.9	1.000230
11500.0	674.2	5.1	3.7	91.1	840.3	651.3	43.4	1.000226
12000.0	661.7	4.1	2.5	89.0	827.9	650.0	47.1	1.000220
12500.0	649.4	3.2	.9	85.0	815.5	648.9	50.1	1.000214
13000.0	637.3	2.3	•6	81.1	803.2	647.7	57.9	1.000208
13500.0	625.5	1.4	-2.2	77.1	791.1	646.5	67.9	1.000202
14000.0	613.8	.5	-4.0	71.9	779.3	645.3	61.0	1.000197
14500.0	602.3	-.7	-7.1	61.8	768.3	643.8	52.9	1.000189
15000.0	590.9	-1.8	-10.4	51.9	757.4	642.3	42.3	1.000183
15500.0	579.7	-2.8	-11.9	49.2	745.7	641.1	38.8	1.000179
16000.0	568.6	-3.7	-13.5	46.6	734.1	639.9	44.8	1.000175
16500.0	557.8	-4.6	-15.4	42.6	722.7	638.8	52.0	1.000171
17000.0	547.1	-4.7	-18.6	13.2	709.6	638.5	60.4	1.000161
17500.0	536.6	-5.6	-27.0	16.4	698.2	637.4	68.9	1.000159
18000.0	526.2	-6.4	-25.9	19.6	687.0	636.4	77.9	1.000157

STATION ALTITUDE 3951.4C FEET MSL
 23 JULY 76 0750 HRS MDT
 ASCENSION NO. 10

UPPER AIR DATA
 2050050010
 APACHE

WSTM SITE COORDINATES
 481468.66 FEET E
 267476.59 FEET N

TABLE XI (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEWPPOINT DEGREES CENTIGRADE		REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS		INDEX OF REFRACTION
		-7.3	-25.0					676.0	635.3	
18500.0	516.1	-7.3	-25.0	22.8	665.1	634.3	77.5	15.1	1.000155	
19000.0	506.1	-8.2	-24.3	26.0	654.6	633.1	72.5	16.6	1.000153	
19500.0	496.2	-9.2	-23.7	29.7	644.4	631.7	69.0	17.7	1.000151	
20000.0	486.4	-10.4	-23.1	34.2	634.3	630.3	67.1	18.0	1.000149	
20500.0	476.7	-11.6	-22.8	38.7	624.4	628.9	65.0	17.7	1.000147	
21000.0	467.2	-12.7	-22.6	43.2	614.7	627.5	62.3	16.7	1.000145	
21500.0	457.9	-13.9	-22.5	47.7	605.2	626.1	56.7	16.8	1.000143	
22000.0	448.8	-15.1	-22.6	52.2	595.8	624.7	49.5	13.1	1.000140	
22500.0	439.8	-16.2	-22.8	56.7	586.6	623.3	44.6	20.3	1.000138	
23000.0	431.1	-17.4	-23.0	61.2	577.6	621.9	41.4	23.0	1.000136	
23500.0	422.5	-18.5	-23.3	65.8	568.7	620.5	39.3	24.8	1.000134	
24000.0	414.1	-19.7	-23.7	70.3	559.9	619.0	37.7	26.3	1.000132	
24500.0	405.8	-20.9	-24.1	74.8	551.5	617.4	37.6	27.3	1.000130	
25000.0	397.7	-22.2	-24.8	79.2	543.7	615.4	38.0	28.1	1.000128	
25500.0	389.5	-23.8	-25.8	83.4	532.9	615.2	40.1	28.7	1.000126	
26000.0	381.5	-23.8	-44.3	13.0	523.4	614.3	42.7	29.3	1.000124	
26500.0	373.6	-24.5	-45.3	12.5	514.1	613.4	45.4	30.7	1.000122	
27000.0	365.8	-25.3	-46.2	12.1	504.9	612.4	47.8	32.4	1.000120	
27500.0	358.2	-26.1	-47.1	11.7	496.0	611.5	51.1	33.6	1.000118	
28000.0	350.7	-26.8	-48.1	11.2	487.2	610.5	54.4	34.9	1.000117	
28500.0	343.4	-27.6	-49.0	10.8	478.5	609.6	56.2	35.8	1.000115	
29000.0	336.3	-28.3	-50.0	10.4	462.0	607.3	57.1	36.6	1.000113	
29500.0	329.3	-29.1	-51.2	9.7**	470.1	608.6	57.4	36.6	1.000112	
30000.0	322.3	-30.1	-54.2	7.4**	454.0	606.1	56.1	38.1	1.000110	
30500.0	315.4	-31.1	-57.8	5.2**	446.2	604.9	55.4	42.4	1.000099	
31000.0	308.8	-32.1	-62.8	3.0**	438.5	603.6	54.8	45.0	1.000098	
31500.0	302.2	-33.1	-62.8	**	431.0	602.3	54.2	47.8	1.000096	
32000.0	295.7	-34.1	-62.8	**	423.6	600.9	53.6	50.5	1.000094	
32500.0	289.2	-35.3	-62.8	**	416.3	599.4	54.2	52.8	1.000093	
33000.0	282.9	-36.4	-62.8	**						

•• AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3951.40 FEET MSL
 23 JULY 70 0750 HRS MDT
 ASCENSION NO. 13

UPPER AIR DATA
 2050050010
 APACHE

WSTM SITE COORDINATES
 481468.66 FEET E
 267476.59 FEET N

TABLE XI (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES(TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
33500.0	276.7	-37.5	409.1	598.0	55.5	54.8	1.000091	
34000.0	270.7	-38.6	402.1	596.6	56.9	57.3	1.000090	
34500.0	264.8	-39.8	395.3	595.2	58.2	60.3	1.000088	
35000.0	259.0	-40.9	388.5	593.7	57.8	63.5	1.000087	
35500.0	253.4	-42.0	381.9	592.3	57.0	66.9	1.000085	
36000.0	247.8	-43.2	375.4	590.8	56.1	67.4	1.000084	
36500.0	242.2	-44.4	368.9	589.2	55.2	68.0	1.000082	
37000.0	236.8	-45.7	362.6	587.5	55.0	67.8	1.000081	
37500.0	231.4	-46.9	356.4	585.9	54.9	67.4	1.000079	
38000.0	226.2	-48.1	350.2	584.4	54.8	66.1	1.000078	
38500.0	221.0	-49.2	343.8	583.0	54.9	64.2	1.000077	
39000.0	215.9	-50.3	337.5	581.5	54.8	62.1	1.000075	
39500.0	210.9	-51.4	331.4	580.1	54.6	59.7	1.000074	
40000.0	206.1	-52.5	325.3	578.7	54.2	57.2	1.000072	
40500.0	201.3	-53.6	319.4	577.3	53.3	54.2	1.000071	
41000.0	196.6	-54.6	313.3	575.9	52.1	51.7	1.000070	
41500.0	191.9	-55.6	307.2	574.7	50.2	50.4	1.000068	
42000.0	187.3	-56.5	301.3	573.4	48.6	49.1	1.000067	
42500.0	182.9	-57.5	295.4	572.1	48.1	47.9	1.000066	
43000.0	178.5	-58.4	289.7	570.9	47.9	46.7	1.000065	
43500.0	174.3	-59.4	284.1	569.6	49.1	45.5	1.000063	
44000.0	170.2	-60.4	278.6	568.3	50.4	44.3	1.000062	
44500.0	166.1	-61.3	273.2	567.0	52.9	47.5	1.000061	
45000.0	162.1	-61.3	266.6	567.0	55.1	50.7	1.000059	
45500.0	158.2	-61.2	260.0	567.2	58.0	47.7	1.000058	
46000.0	154.4	-61.1	253.6	567.3	61.4	44.0	1.000056	
46500.0	150.7	-61.0	247.4	567.4	64.9	34.7	1.000055	
47000.0	147.0	-61.2	241.6	567.2	71.3	22.8	1.000054	
47500.0	143.5	-61.4	236.0	566.9	79.8	14.1	1.000053	
48000.0	140.0	-61.7	230.6	566.6	79.1	9.8	1.000051	

STATION ALTITUDE 3951.40 FEET MSL
 23 JULY 76 0750 HRS MDT
 ASCENSION NO. 10

UPPER AIR DATA
 205005001U
 APACHE

TABLE XI (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREE CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
48500.0	136.6	-62.4	225.7	565.6	75.7	6.2	1.000050	
49000.0	133.2	-63.3	221.1	564.4	63.4	8.6	1.000049	
49500.0	129.9	-64.2	216.6	563.2	56.8	11.3	1.000048	
50000.0	126.7	-65.0	212.1	562.0	57.9	12.7	1.000047	
50500.0	123.6	-65.9	207.8	560.8	59.8	14.0	1.000046	
51000.0	120.6	-66.8	203.5	559.6	62.4	15.3	1.000045	
51500.0	117.6	-67.7	199.4	558.4	65.3	16.7	1.000044	
52000.0	114.7	-68.6	195.3	557.2	68.1	17.6	1.000043	
52500.0	111.9	-69.1	190.9	556.6	71.9	17.2	1.000043	
53000.0	109.1	-67.5	184.7	558.7	75.9	16.9	1.000041	
53500.0	106.4	-67.5	180.2	558.6	77.2	16.2	1.000040	
54000.0	103.7	-67.8	175.9	558.3	78.4	15.5	1.000039	
54500.0	101.1	-68.1	171.8	557.9	79.3	15.1	1.000038	
55000.0	98.6	-67.9	167.4	558.1	79.9	15.0	1.000037	
55500.0	96.2	-67.3	162.8	558.9	80.4	14.9	1.000036	
56000.0	93.8	-66.8	158.4	559.7	81.7	15.3	1.000035	
56500.0	91.5	-66.2	154.1	560.4	82.9	15.7	1.000034	
57000.0	89.3	-65.7	149.9	561.2	85.0	15.7	1.000033	
57500.0	87.1	-65.1	145.8	561.9	88.2	15.3	1.000032	
58000.0	84.9	-64.6	141.9	562.7	89.4	15.4	1.000032	
58500.0	82.9	-64.0	138.0	563.4	84.1	17.3	1.000031	
59000.0	80.8	-63.4	134.2	564.2	79.8	19.3	1.000030	
59500.0	78.8	-62.9	130.6	564.9	78.6	22.1	1.000029	
60000.0	76.9	-62.6	127.3	565.2	78.0	24.9	1.000028	
60500.0	75.3	-62.7	124.2	565.1	78.0	21.0	1.000028	
61000.0	73.2	-62.8	121.3	565.0	78.4	20.7	1.000027	
61500.0	71.4	-62.9	118.4	564.9	78.0	19.6	1.000026	

STATION ALTITUDE 3951.40 FEET MSL
 23 JULY 76 0750 HRS MDT
 ASCENSION NO. 12

MANDATORY LEVELS
 205000010
 APACHE

NSTM SITE COORDINATES
 481468.66 FEET E
 267476.59 FEET N

TABLE XII

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	DEGREES	TEMPERATURE AIR DEWPOINT CENTIGRADE	REL.HUM. PERCENT	WIND DATA	
					DIRECTION DEGREES(1TM)	SPEED KNOTS
850.0	5110.	17.6	9.9	60.	130.8	4.1
800.0	6806.	15.0	7.9	62.	141.3	6.6
750.0	8593.	12.1	5.6	64.	129.2	4.9
700.0	10479.	7.5	4.8	83.	43.1	2.0
650.0	12470.	3.3	1.0	95.	49.9	11.6
600.0	14588.	-0.9	-7.7	60.	50.8	7.2
550.0	16849.	-4.6	-24.3	20.	58.3	12.0
500.0	19291.	-8.8	-23.9	28.	74.3	16.0
450.0	21939.	-14.9	-22.6	52.	57.3	16.7
400.0	24826.	-21.7	-24.5	78.	37.5	27.0
350.0	28016.	-26.9	-48.2	11.	51.5	33.8
300.0	31619.	-33.4			54.6	45.9
250.0	35738.	-42.7			56.5	67.2
200.0	40555.	-53.9			53.0	53.5
175.0	43334.	-59.2			48.9	45.6
150.0	46478.	-61.0			65.6	32.8
125.0	50166.	-65.5			59.0	13.4
100.0	54572.	-68.2			79.6	15.0
80.0	59020.	-63.2			79.4	20.3
70.0	61719.	-63.0				

•• AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4051.30 FEET MSL
 23 JULY 76 0750 HRS MDT
 ASCENSION NO. 134

SIGNIFICANT LEVEL DATA
 205003U184

WSTM SITE COORDINATES
 450491.60 FEET E
 464023.05 FEET N

TABLE XIII

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE FEET	TEMPERATURE DEGREES CENTIGRADE	REL.HUM. PERCENT	
			AIR DEWPONT	DEGREE
882.2	4051.0	21.1	14.7	67.0
872.0	4381.4	19.4	13.3	68.0
850.0	5103.2	17.8	13.1	74.0
837.0	5536.6	16.7	13.0	79.0
814.0	6318.5	16.7	11.6	72.0
788.0	7225.9	14.7	9.5	71.0
765.0	8048.9	13.3	9.4	77.0
718.0	9795.7	10.1	5.7	74.0
700.0	10488.3	8.0	4.0	76.0
660.0	12073.9	3.5	1.2	85.0
642.0	12810.6	2.0	-3.1	69.0
627.0	13437.1	1.2	-13.3	33.0
541.0	17304.0	-3.4	-23.1	20.0
500.0	19336.1	-7.7	-23.8	26.0
484.0	20164.7	-9.8	-27.0	23.0
400.0	24899.2	-21.0	-29.7	45.0
385.0	25827.4	-21.4	-39.3	18.0
334.0	29227.4	-28.4	-45.7	17.0
326.0	29798.8	-29.0	-46.2	17.0
300.0	31741.2	-32.5	-49.2	17.0
250.0	35872.6	-43.8		
200.0	40688.6	-55.0		
174.0	43581.4	-60.8		
150.0	46609.4	-62.8		
143.0	47580.1	-62.8		
122.0	50766.4	-68.0		
117.0	51670.7	-65.5		
100.0	54726.7	-68.6		
92.0	56372.4	-69.2		
75.0	60475.5	-61.5		

STATION ALTITUDE 4051.00 FEET MSL
23 JULY 76 0750 HRS MDT
ASCENSION NO. 184

SIGNIFICANT LEVEL DATA
2050030164
JALLEN

TABLE XIII (CONT)

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREE CENTIGRADE	REL.HUM. PERCENT
70.0	61889.7	-60.8	
62.0	64375.3	-61.9	
56.0	66474.1	-58.0	
50.0	68835.7	-57.5	
44.0	71531.6	-52.9	
32.0	78309.5	-53.6	
30.0	79686.2	-52.2	
24.0	84482.4	-50.3	

STATION ALTITUDE 4051.00 FEET MSL
 23 JULY 75 0750 HRS MDT
 ASCENSION NO. 184

UPPER AIR DATA
 2050030184
 JALLEN

WSTM SITE COORDINATES
 450491.60 FEET E
 464023.05 FEET N

TABLE XIV

GEOMETRIC ALTITUDE mSL FEET	PRESSURE MILLIBARS	TEMPERATURE DEGREES CENTIGRADE	AIR DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
4051.0	882.2	21.1	14.7	67.0	1036.9	670.7	360.0	2.9	1.000305
4500.0	868.3	19.1	13.3	69.0	1028.0	668.3	7.7	.9	1.000297
5000.0	853.1	18.0	13.1	73.1	1013.8	667.0	169.8	1.4	1.000294
5500.0	838.1	16.8	13.1	78.6	1000.1	665.6	174.0	3.7	1.000291
6000.0	823.3	16.7	12.2	74.9	983.0	665.4	174.6	4.7	1.000283
6500.0	808.7	16.3	11.2	71.8	967.3	664.9	174.5	4.7	1.000276
7000.0	794.4	15.2	10.0	71.2	954.1	663.5	160.1	3.9	1.000269
7500.0	780.3	14.2	9.5	73.0	940.4	662.3	192.4	2.8	1.000264
8000.0	766.3	13.4	9.4	76.6	926.3	661.4	210.8	2.7	1.000261
8500.0	752.6	12.5	8.4	76.2	912.8	660.2	227.7	2.9	1.000255
9000.0	739.0	11.6	7.4	75.4	899.5	659.1	252.9	2.4	1.000249
9500.0	725.7	10.6	6.3	74.5	886.4	657.9	264.5	2.5	1.000243
10000.0	712.6	9.5	5.2	74.6	874.3	656.5	331.5	2.7	1.000237
10500.0	699.7	8.0	4.0	76.1	863.3	654.6	359.7	4.1	1.000231
11000.0	686.8	6.5	3.2	78.9	851.8	652.9	29.7	4.9	1.000227
11500.0	674.2	5.1	2.3	81.7	840.6	651.2	34.6	6.1	1.000223
12000.0	661.8	3.7	1.4	84.6	829.5	649.5	46.4	6.1	1.000218
12500.0	649.5	2.6	-1.2	75.7	817.8	648.0	58.8	6.1	1.000210
13000.0	637.4	1.6	-5.6	58.1	805.8	646.7	54.4	6.9	1.000200
13500.0	625.5	1.1	-13.4	32.8	793.4	645.6	47.8	8.0	1.000198
14000.0	613.7	.5	-14.6	31.1	780.2	644.9	46.4	6.9	1.000184
14500.0	602.1	-.1	-15.8	29.4	767.2	644.2	46.4	9.8	1.000180
15000.0	590.7	-.7	-17.0	27.7	754.4	643.4	54.1	10.5	1.000176
15500.0	579.5	-1.3	-18.2	26.1	741.8	642.7	63.3	1.3	1.000173
16000.0	568.6	-1.8	-19.5	24.4	729.5	642.0	67.7	12.8	1.000169
16500.0	557.9	-2.4	-20.8	22.7	717.3	641.2	69.9	14.5	1.000166
17000.0	547.3	-3.0	-22.2	21.0	705.4	640.5	71.8	15.6	1.000162
17500.0	536.9	-3.8	-23.1	20.6	694.0	639.6	73.6	16.4	1.000160
18000.0	526.6	-4.9	-23.2	22.1	683.3	638.3	74.0	16.7	1.000157
18500.0	516.5	-5.9	-23.4	23.5	672.9	637.1	73.2	16.6	1.000155

STATION ALTITUDE 4051.00 FEET MSL
 23 JULY 76 0750 HRS MDT
 ASCENSION NO. 184

UPPER AIR DATA
 205031C184
 JALLEN

TABLE XIV (CONT)

GEOMETRIC ALTITUDE HSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEWPONT DEGREES	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	INDEX OF REFRACTION	
							INDEX OF REFRACTION	INDEX OF REFRACTION
19300.0	506.6	-7.0	-23.6	25.0	662.6	635.8	72.2	16.8
19500.0	496.8	-8.1	-24.4	25.4	652.6	634.4	70.8	17.1
20000.0	487.1	-9.4	-26.3	23.6	643.0	632.9	69.0	17.6
20500.0	477.5	-10.6	-26.9	24.6	633.2	631.4	66.9	18.3
21000.0	468.0	-11.8	-27.0	26.9	623.4	630.0	63.5	18.9
21500.0	458.7	-13.0	-27.1	29.2	613.8	626.6	59.0	19.3
22000.0	449.5	-14.1	-27.3	31.5	604.3	627.1	56.5	20.1
22500.0	440.4	-15.3	-27.6	33.9	595.0	625.7	55.5	21.0
23000.0	431.8	-16.5	-28.0	36.2	585.8	624.3	55.9	22.6
23500.0	423.2	-17.7	-28.4	38.5	576.8	622.8	57.2	24.6
24000.0	414.7	-18.9	-28.8	40.8	567.9	621.4	53.8	26.8
24500.0	406.5	-20.1	-29.3	43.1	559.2	619.9	50.6	29.2
25000.0	398.3	-21.0	-30.5	42.1	550.2	618.7	60.9	31.2
25500.0	390.2	-21.3	-35.0	27.5	539.5	618.4	60.1	32.9
26000.0	382.2	-21.8	-39.6	17.9	529.6	617.8	56.5	34.0
26500.0	374.3	-22.8	-40.6	17.8	520.8	616.5	53.4	34.7
27000.0	366.6	-23.8	-41.5	17.7	512.1	615.2	46.2	36.2
27500.0	359.0	-24.8	-42.4	17.5	503.6	613.9	43.4	38.0
28000.0	351.6	-25.9	-43.4	17.4	495.2	612.7	43.3	40.6
28500.0	344.3	-26.9	-44.3	17.2	487.0	611.4	45.5	43.8
29000.0	337.2	-27.9	-45.3	17.1	479.0	610.1	47.5	47.0
29500.0	330.2	-28.7	-45.9	17.0	470.4	609.2	49.4	49.9
30000.0	323.2	-29.4	-46.5	17.0	461.8	608.3	50.3	52.4
30500.0	316.4	-30.3	-47.3	17.0	453.7	607.2	49.6	53.4
31000.0	309.7	-31.2	-48.0	17.0	445.8	606.1	49.0	54.4
31500.0	303.1	-32.1	-48.8	17.0	438.0	604.9	48.9	55.1
32000.0	296.6	-33.2	-50.3	15.9	430.6	603.5	49.1	55.7
32500.0	290.1	-34.6	-52.6	13.9	423.6	601.8	50.9	56.0
33000.0	283.8	-35.9	-55.1	11.8	416.8	600.0	52.5	56.4
33500.0	277.6	-37.3	-57.7	9.8	410.0	598.3	52.1	57.0

•• AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4051.30 FEET MSL
23 JULY 76 0750 HRS MDT
ASCENSION NO. 184

UPPER AIR DATA
2050030184
JALLEN

WSTM SITE COORDINATES
450491.60 FEET E
464023.05 FEET N

TABLE XIV (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEPOINT DEGREE CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES (TN)	"IND. DATA SPEED KNOTS	INDEX OF REFRACTION
34000.0	271.5	738.7	-60.6	7.7**	403.4	596.5	51.6	57.5
34500.0	265.6	740.0	-64.0	5.6**	396.9	594.8	50.1	57.6
35000.0	259.8	741.4	-68.3	3.6**	390.6	593.1	48.6	57.6
35500.0	254.1	742.6	-75.0	1.5**	384.3	591.3	48.0	56.9
36000.0	248.5	744.1			378.0	589.6	47.5	56.0
36500.0	242.8	745.3			371.2	588.1	46.8	55.8
37000.0	237.3	746.4			364.6	586.6	46.1	55.9
37500.0	231.8	747.6			358.1	585.1	45.3	55.8
38000.0	226.5	748.7			351.7	583.6	44.4	55.7
38500.0	221.3	749.9			345.4	582.1	43.5	55.7
39000.0	216.3	751.1			339.3	580.6	42.7	56.0
39500.0	211.3	752.2			333.2	579.0	41.8	56.1
40000.0	206.5	753.4			327.3	577.5	40.8	55.1
40500.0	201.8	754.6			321.5	576.0	39.7	54.2
41000.0	197.0	755.6			315.5	574.6	38.5	53.8
41500.0	192.3	756.6			309.5	573.3	37.2	53.6
42000.0	187.8	757.6			303.5	571.9	37.6	54.0
42500.0	183.3	758.6			297.7	570.6	39.3	55.1
43000.0	178.9	759.6			291.9	569.3	41.3	55.9
43500.0	174.7	760.6			286.4	567.9	46.2	53.6
44000.0	170.5	761.1			280.0	567.3	51.5	51.8
44500.0	166.3	761.4			273.7	566.9	56.4	49.3
45000.0	162.3	761.7			267.5	566.5	61.0	45.9
45500.0	158.4	762.1			261.4	566.0	66.2	42.8
46000.0	154.5	762.4			255.5	565.6	66.6	38.6
46500.0	150.8	762.7			249.7	565.1	66.4	34.2
47000.0	147.1	762.8			243.7	565.0	65.1	29.8
47500.0	143.6	762.8			237.8	565.0	60.2	25.6
48000.0	140.0	763.5			232.7	564.1	53.5	21.7
48500.0	136.6	764.3			227.8	563.0	50.3	19.8

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4051.33 FEET MSL
 23 JULY 76 0750 HRS MDT
 ASCENSION NO. 184

UPPER AIR DATA
 20500301A4
 JALLÉN

TABLE XIV (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE DEGREES CENTIGRADE	AIR DEWPOINT DEGREES CENTIGRADE	RELATIVE HUMIDITY PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	"IND. DATA" DIRECTION DEGREES(1N)	SPEED KNOTS	INDEX OF REFRACTION
49000.0	133.2	-65.1		223.1	561.9	49.1	18.7	1.000050	
49500.0	129.9	-65.9		218.5	560.8	47.8	17.6	1.000049	
50000.0	126.8	-66.7		213.9	559.7	50.9	16.8	1.000048	
50500.0	123.6	-67.6		209.5	558.6	54.9	16.1	1.000047	
51000.0	120.4	-67.3		204.1	558.9	59.1	15.5	1.000045	
51500.0	117.6	-65.8		197.6	561.0	56.5	14.6	1.000044	
52000.0	114.7	-65.9		192.8	560.9	53.7	13.8	1.000043	
52500.0	111.8	-66.4		188.4	560.2	52.8	12.9	1.000042	
53000.0	109.1	-66.9		184.2	559.5	64.3	11.8	1.000041	
53500.0	106.4	-67.4		180.1	558.8	77.3	11.4	1.000040	
54000.0	103.7	-67.9		176.0	558.2	93.1	11.3	1.000039	
54500.0	101.1	-68.4		172.1	557.5	114.1	12.0	1.000038	
55000.0	98.6	-68.7		168.3	557.0	130.8	14.1	1.000037	
55500.0	96.2	-68.9		164.0	556.8	135.3	15.0	1.000037	
56000.0	93.8	-69.1		160.0	556.5	129.1	13.8	1.000036	
56500.0	91.4	-69.0		156.0	556.7	121.9	12.8	1.000035	
57000.0	89.2	-68.0		151.4	558.0	105.2	13.7	1.000034	
57500.0	87.0	-67.1		147.0	559.2	90.0	16.5	1.000033	
58000.0	84.8	-66.1		142.8	560.5	79.6	20.1	1.000032	
58500.0	82.8	-65.2		138.6	561.8	60.5	22.5	1.000031	
59000.0	80.7	-64.3		134.6	543.0	81.8	20.8	1.000030	
59500.0	78.7	-63.3		130.7	564.3	63.0	21.1	1.000029	
60000.0	76.9	-62.4		126.9	565.6	84.5	20.2	1.000028	
60500.0	74.9	-61.5		123.3	566.8	86.1	19.3	1.000027	
61000.0	73.1	-61.2		120.2	567.1	87.8	18.3	1.000027	
61500.0	71.3	-61.3		117.1	567.4	88.5	17.9	1.000026	
62000.0	69.6	-60.8		114.2	567.6	89.0	17.4	1.000025	
62500.0	67.9	-61.1		111.6	567.3	89.5	17.0	1.000025	
63000.0	66.3	-61.3		109.0	567.0	89.1	17.1	1.000024	
63500.0	64.7	-61.5		106.5	566.8	88.4	17.3	1.000024	

STATION ALTITUDE 4351.00 FEET MSL
 23 JULY 76 0750 HRS MDT
 ASCENSION NO. 184

UPPER AIR DATA
 205030JUL76
 JALLEN

SITE COORDINATES
 450491.60 FEET E
 464023.05 FEET N

TABLE XIV (CONT)

GEOMETRIC ALTITUDE HSL FEET	PRESSURE MILLIBARS	TEMPERATURE DEGREES CENTIGRADE	AIR DEGREE POINT	DEWPOINT DEGREE CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES(1TM)	WIND SPEED KNOTS	INDEX OF REFRACTION
64000.0	63.1	-61.7			104.1	566.5	87.7	17.6	1.000023	
64500.0	61.6	-61.7			101.5	566.5	85.0	19.1	1.000023	
65000.0	60.1	-60.7			98.6	567.8	82.1	21.0	1.000022	
65500.0	58.7	-59.8			95.9	569.0	79.7	22.9	1.000021	
66000.0	57.3	-58.9			93.2	570.3	79.6	24.0	1.000021	
66500.0	55.9	-58.0			90.6	571.4	63.0	25.0	1.000020	
67000.0	54.6	-57.9			88.4	571.6	60.3	25.9	1.000020	
67500.0	53.3	-57.8			86.2	571.7	82.9	27.2	1.000019	
68000.0	52.0	-57.7			84.1	571.9	85.5	28.7	1.000019	
68500.0	50.8	-57.6			82.1	572.0	87.9	30.2	1.000018	
69000.0	49.6	-57.2			80.0	572.5	90.2	31.0	1.000018	
69500.0	48.4	-56.4			77.9	573.6	92.3	31.7	1.000017	
70000.0	47.3	-55.5			75.7	574.7	94.4	32.5	1.000017	
70500.0	46.2	-54.7			73.7	575.9	96.1	32.0	1.000016	
71000.0	45.1	-53.8			71.7	577.0	97.7	31.3	1.000016	
71500.0	44.1	-53.0			69.7	578.1	99.4	30.6	1.000016	
72000.0	43.0	-52.9			68.1	578.1	99.1	29.7	1.000015	
72500.0	42.0	-53.0			66.5	578.0	97.9	28.8	1.000015	
73000.0	41.1	-53.1			65.0	578.0	96.6	28.0	1.000014	
73500.0	40.1	-53.1			63.5	577.9	95.6	26.8	1.000014	
74000.0	39.2	-53.2			62.0	577.8	94.9	25.4	1.000014	
74500.0	38.3	-53.2			60.6	577.8	94.1	24.0	1.000014	
75000.0	37.4	-53.3			59.2	577.7	93.5	23.2	1.000013	
75500.0	36.5	-53.3			57.9	577.6	93.4	23.4	1.000013	
76000.0	35.7	-53.4			56.5	577.6	93.3	23.7	1.000013	
76500.0	34.8	-53.4			55.2	577.5	92.9	24.3	1.000012	
77000.0	34.0	-53.5			54.0	577.4	91.4	26.4	1.000012	
77500.0	33.2	-53.5			52.7	577.4	90.0	28.4	1.000012	
78000.0	32.5	-53.6			51.5	577.3	88.9	30.5	1.000011	
78500.0	31.7	-53.4			50.3	577.5	88.0	31.9	1.000011	

STATION ALTITUDE 4051.00 FEET MSL
 23 JULY 76 0750 HRS MDT
 ASCENSION NO. 184

UPPER AIR DATA
 2050030184
 JALLEN

WSTM SITE COORDINATES
 450491.60 FEET E
 464023.05 FEET N

TABLE XIV (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	UMS GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES(STN)	WIND SPEED KNOTS	INDEX OF REFRACTION
79000.0	31.0	-52.9	49.0	578.2	87.2	33.1	1.000011	
79500.0	30.3	-52.4	47.8	578.8	86.5	34.3	1.000011	
80000.0	29.6	-52.1	46.6	579.2	86.3	34.5	1.000010	
80500.0	28.9	-51.9	45.5	579.5	86.9	33.1	1.000010	
81000.0	28.2	-51.7	44.4	579.8	87.7	31.7	1.000010	
81500.0	27.6	-51.5	43.3	580.0	86.5	30.4	1.000010	
82000.0	26.9	-51.3	42.3	580.3			1.000009	
82500.0	26.3	-51.1	41.3	580.5			1.000009	
83000.0	25.7	-50.9	40.3	580.8			1.000009	
83500.0	25.1	-50.7	39.3	581.1			1.000009	
84000.0	24.5	-50.5	38.4	581.3			1.000009	

STATION ALTITUDE 4951.00 FEET MSL
 23 JULY 76 0750 HRS MDT
 ASCENSION NO. 184

MANDATORY LEVELS
 2050030184
 JALLEN

WSTM SITE COORDINATES
 450491.60 FEET E
 464023.05 FEET N

TABLE XV

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE DEGREES	AIR DEWPONT CENTIGRADE	REL.HUM. PERCENT	WIND DATA	
					DIRECTION DEGREES(1TM)	SPEED KNOTS
850.0	5102.	17.6	13.1	74.	171.5	1.9
800.0	6801.	15.6	10.5	71.	177.0	4.3
750.0	8592.	12.3	8.2	76.	231.2	2.9
700.0	10481.	8.0	4.0	76.	359.2	4.0
650.0	12472.	2.7	-1.1	76.	58.3	6.1
600.0	14585.	-0.2	-16.0	29.	46.4	10.0
550.0	16858.	-2.9	-21.9	21.	71.3	15.4
500.0	19315.	-7.7	-23.8	26.	71.2	17.0
450.0	21971.	-14.1	-27.3	31.	56.5	20.1
400.0	24866.	-21.0	-29.7	45.	61.1	30.8
350.0	28076.	-26.1	-43.6	17.	43.8	41.3
300.0	31698.	-32.5	-49.2	17.	48.9	55.4
250.0	35805.	-43.8			47.6	56.2
200.0	40603.	-55.0			39.3	54.0
175.0	43367.	-60.6			45.8	53.8
150.0	46499.	-62.8			66.3	33.3
125.0	50156.	-67.2			53.1	16.4
100.0	54575.	-68.6			122.0	12.8
80.0	58986.	-63.9			82.2	20.9
70.0	61697.	-60.8			88.9	17.5
60.0	64835.	-60.6			81.9	21.1
50.0	68599.	-57.5			89.4	30.7
40.0	73292.	-53.1			95.6	26.7
30.0	79372.	-52.2			86.2	34.7
25.0	83256.	-50.6				

• AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.